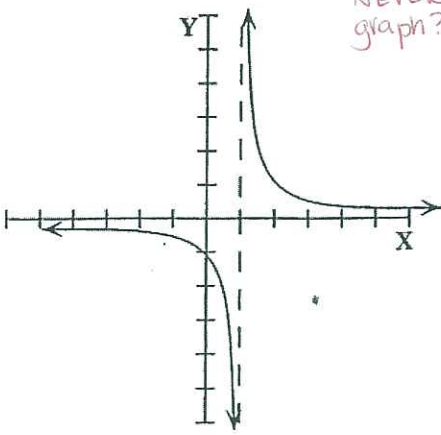


Name: _____ TP: _____

failure to show work on all problems or use complete sentences will result in a LaSalle.

<p>1) Find the value(s) of x that make the following expressions undefined.</p> <p>*What value CAN NOT be in a fraction's denominator?! $\frac{15x}{x-5}$</p> <p>*What value of x would make that happen?</p>	<p>3) State the x-value for which the graph below is undefined:</p> <p>* what value of x NEVER touches the graph?</p> 
<p>2) Find the value(s) of x that make the following expressions undefined.</p> <p>* factor the denominator</p> <p>* What values will make the denominators = 0?</p> <p>$\frac{x-3}{x^2-11x+24} = \frac{x-3}{(x-3)(x-8)}$</p>	<p>5) What value(s) makes the expression undefined?</p> <p>* factor the numerator</p> <p>* factor the denominator</p> <p>* cancel out</p> <p>* what values will make the denominator equal to 0?</p> <p>$\frac{x^2-12x+27}{x^2-x-72}$</p>
<p>4) What is the sum of the values that make the expression below undefined:</p> <p>* Same as #1</p> <p>$\frac{x}{x^2-2x-63}$</p>	<p>7) When the expression $\frac{3x}{5+x}$ is undefined, what is the value of x^2+4?</p> <p>* what value of x makes $5+x=0$?</p> <p>* plug the x-value into x^2+4</p>
<p>6) When the expression $\frac{x}{x+9}$ is undefined, what is the value of $x+8$?</p> <p>* What value of x makes $x+9=0$?</p> <p>* plug the x-value into $x+8$</p>	<p>9) Let $f(x) = x^2-2$ and $g(x) = x+9$. Same as #8</p> <p>a. Find $g \circ f(x)$.</p> <p>b. Find $f \circ g(x)$.</p>
<p>8) Let $k(x) = x-10$ and $j(x) = x^2-10x-8$.</p> <p>1. find $K(x)$</p> <p>2. plug $K(x)$ into $j(x)$</p> <p>a. Find $j(k(x))$.</p> <p>$j(x-10)$</p> <p>b. Find $k(k(x))$.</p> <p>$k(x-10)$</p> <p>1. find $K(x)$</p> <p>2. plug $K(x)$ into $K(x)$ again.</p>	

PUSH IT TO THE LIMIT.

<p>10. For what value of k is $x=4$ a solution to $x^2 - 4x + k = 0$?</p> <p>* plug in 4 * solve for K</p>	<p>11. For what value of p is $x=3$ a solution to $x^2 - 3x + p = 0$</p> <p>* plug in 3 * solve for P</p>
<p>12. What is the <u>product</u> of $3x-1$ and $3x+1$? FOIL OR BOX (multiply)</p>	<p>13. What is the product of $2x+3$ and $4x-2$?</p>
<p>14. Simplify $6x^2 - x - 12$ in factored form.</p> <p>$\frac{3x}{2x} \quad -$</p> <p>() ()</p>	<p>15. When $x=-3$ and $y=2$, what is the value of $3x^2 - 2xy$?</p> <p>"plug and chug" * use parentheses in your calculator!!</p>

PUSH IT TO THE LIMIT.